MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Construction of RCC culverts & U-shape drain for Secondary SWD drains near Divya Engineering works in Wardn 12 Recorded on: 31/1/2018 First & Final bill Work code: 012-18-0000212 Name of contractor: Smt K. Nagamma Agreement No: CE/SWD/Otr/Agmt/05/2016-17 dt 4.1.2018 Work order No: CE/SWD/Otr/WO/05/2016-17 dt 4.1.2018 Approval Authority: Commissioner BBMP A.S No: CE/SWD/Tech/99/2016-17 dt 23.8.2016 T.S No: CE/SWD/Tech/Sanction/101/2016-17 dt 23.8.2016						
IW.1.	Dismantling & Excavating Structure like culverts Bridges, Retaining walls and other structures comprising & Masonry etc complete, as directed by EIC						

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M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 64590

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Brick-abstract of PWD ① of 9					15.49 cum	
				@ Rs 1000/-		Rs 15,490-00	
IND. 2.	Dismantling of earthen structures like culverts, bridges Retaining walls and other structures ... as complete as per direction of EIC						
	Ref wide e. abstract of PWD ① of 9					2398 cum	
					@ 200/-	Rs 4795-20	
IND. 3.	Excavation of normal & hilt mixed with sand, human excrets						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Earthwork in during condition from dirty water drain ... etc complete as directed by EIC						
	Vide E-Abstract ⅌ PWD (2) ⅌ 19					455.15 cum	
					@ 300/-	Rs	136665.00
I.NO.4	Excavation ⅌ removal ⅌ silt mixed with sand, murum, gravel, earthwork in during condition from dirty water drain ... etc complete as directed ⅌ the EIC						
	Vide E-Abstract ⅌ PWD (2) ⅌ 19					557.64 cum	
					@ 600/-	Rs	334584.00
I.NO.5	Diversion ⅌ water course by providing cofferdams or bunds or islands as may be necessary ... etc complete as directed by EIC						
	Vide E-abstract ⅌ PWD (2) ⅌ 19					93.19 cum	

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M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 64591

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				@	300 t	By	d-7956-25
I NO.6.	Excavation in marly soil upto 3 m depth for foundation & structures as per drawing & complete as directed by EIC vide E-abstract PM (2) Pg 9					557.00 cum	
				@	110 t	By	61,272-13
I NO.7.	Earth work excavation for foundation of structures such as culverts, bridges etc complete as directed by EIC vide E. abstract P.M (3) Pg 9					1307.64 cum	

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MEASUREMENT BOOK

Dat 1	Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
			Number 3	Length 4	Breadth 5	Depth 6		
					@ M 50 t		Rs	65381.90
	I.NO.8.	Earth work excavation for foundation & structures as per drawings and technical specification etc complete as directed by the EIC						
		vide E-abstract pw (3) 8/9					169.88	cum
					@ 4dot		Rs	71350.27 / 71349.6
	I.NO.9.	Earth work in excavation for foundation & structures as per drawings and technical specifications etc complete as per direction of EIC						
		vide E-abstract pw (3) 8/9					5.76	cum / 5.76-m
IM					@ 1000 t		M	
	I.NO.10	providing and laying in foundation work granite/trap stone metal 40mm and dust etc complete as directed by EIC						

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M.A.R. 57 (Rule 116)

Measurement Book No. A/10 64592

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ఫర్ vide E-abstract pno (4) ఫ్ 9					451.01	cum
				@ 1800/-		Rs	811818-00
IN0.11	providing new RWing in foundation with granite/trap broken metal 100 MM (available boulders from excavation & quarry) -- 3c complete as per direction ఫ్ EEc						
	ఫర్ vide E-abstract pno (4) ఫ్ 9					7.94	cum
				@ 1200/-		Rs	9528-00
IN0.12	plain cement concrete M-10 with type cover @ adopted. with crushed 40 MM and dis - 3c complete, as per direction ఫ్ EEc						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ಫೌ vide E-abstract p.no (4) ಸ್ಲ 9					198.28	cum
				@	5800	Rs	11,49,997.28
I.No.13	plain/reinforcement cement concrete design mix M 25 work						
	OPC cement @ 340 kg work done & d/s ... st complete						
	as directed ಫೌ EIC						
	ಫೌ vide E-abstract p.no (5) ಸ್ಲ 9					402.34	cum
				@	5900	Rs	23,73,806.00
I.No.14	Design mix M 25 RCC structure work OPC cement @ 340 kg						
	work done & d/s - Etc complete as per direction ಫೌ EIC						
	ಫೌ vide E-abstract p.no (5) ಸ್ಲ 9					280.13	cum
				@	6200	Rs	1736896.00
I.No.15	plain/reinforcement cement concrete design mix M 35 work						
	OPC cement @ 390 kg work done & d/s -- st complete						

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M.A.R. 57 (Rule 116)

Measurement Book No. A/10 64593

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as directed by EIC Qty vide E-abstract PW (5) of 9					21.18	cum
					@ 6000/-	M	1,27,080-00
1.10.16	DENTIL MCP M-35 Sub Structure work upto 4m depth with 390 kg work done and all the required materials etc complete as directed by EIC Qty vide E-abstract PW (6) of 9					18.96	cum
					@ 6800/-	M	1,28,928-00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.NO.17.	Furnishing and placing reinforced / prestressed cement concrete in super structure as per drawing. etc complete as directed by EIC						
	As per abstract P.NO (6) Sl 9					20.73	Cum
	@ 7000/-					MT	145,110-00
I.NO.18.	Supplying, fitting and placing T.M.T. bar reinforcement in bridge structure. etc complete as per direction of EIC						
	As vide E-abstract P.NO (6) Sl 9					56.80	MT
	@ 52000/-					Rs	29,53,600/-
							2951520.00
I.NO.19.	Supplying, fitting and placing T.M.T bar reinforcement etc complete as directed by EIC						
	As vide E-abstract P.NO 6 Sl 9					2.11	MT
	@ 52000/-					MT	109720-00
							109200.00

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Measurement Book No. A/10 64594

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.No.20	P.V.C pipes d'15(8) 994m 100m outer dia as directed by EIC as per Vide E. abstract P.No (7) Sl 9				@ 100 Rm	120.96	Rmt M 12096-00
I.No.21	providing and laying of filter media with granular materials / stone crushed aggregates ... etc complete as directed by EIC as per vide E abstract P.No (7) Sl 9				@ 1000 Rm	245.38 cum	M 2,45,380-00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	I·No·22, Filling available excavated earth (Excluding rock) in sides & foundation upto plinth ...etc complete as directed by EIC						
	as per wide Abstract page (7) & 9					474.66 cum	
	@ 100/-					M 47466-00	
	I·No·23. collecting, conveying and disposal of surplus excavated earth lead by stone ... etc complete as directed by EIC						
	as per wide Abstract page (7) & 9					3558.48	
	a) Upto 25%.					2607.56 @ 100/-	260756.00
	b) Beyond 125%.					951.32 @ 99.00/-	94176.00
	I·No·24 — Not operated						
	I·No·25. Supplying and fixing M.S Rectangular 2 equal angles of 65×65×6 mm welded					poles made out of tested and hitted	

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Measurement Book

No. A/10 64595

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in cc (1:2:4) wall for 2 Nos 16 mm ϕ M.S hold fast complete, as directed by EIC					343·00	2 Nos
	Qty vide E abstract P.No(8) Sl 9				@ 500/-	Nos	1,71,500-00
I.No.26	providing and laying M.S Socket pipe of 38 mm ϕ of heavy gauge fig 14, including removing the bends ... etc complete as directed by EIC						
	Qty vide E abstract P.No(8) Sl (7)				@ 300/-	1495.00	Rmt
						Nos	4,48,665-00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.No:27,	providing chain link fencing 50mm size of square properly stretched between rectangular poles ..etc complete as per direction & EIC						
	Qty vide E abstract			pkg (2)	@	894.33 Sqm @ 610/-	Sqm 54737/-30
I.No:28.	providing and laying 50mm ϕ and 750 mm long perforated GI pressure relief pipe with one end closed ..etc complete as directed by EIC						
	Qty vide E-abstract			pkg (2)		—nil—	
I.No:29	providing and laying 20mm thick 150mm depth bitumen Expansion joint filler board ..etc complete as directed by EIC						
	Qty vide E-abstract			pkg 8		170.40	Rmt

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M.A.R. 57 (Rule 116)

Measurement Book

Serial No..... No. A/10 64596

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				@ 100 t		M	127040-W
	Extra Items						
E-1.	supplying and laying precast reinforced concrete slab of decay excel -- as complete, as directed & ETC						
	By vide E- abstract pg 8 & 9					25.05	Sqm
				@ 5200 t		M	130,260-W
							130284.05
E-2.	clearing and grubbing road land inch by uprooting range, vegetation, & rubbish -- as complete as directed by ETC						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide Abstract	pro Cg	8			0.32 Ha.	
		@ 20538.64				6572.36	
						6366.98	
E-3	Reinforced cement concrete M-30 approach slab including reinforcement @ 70 kg/cum and formwork complete - Qty as directed by EE						
	Qty vide E-Abstract	pro Cg	8			27.74 cum	
		@ 8115.25/-				225117.50	
						12498000.00	
						total 125,00 864.50	
						125,01207.54	
				31/1/2019		Assistant Executive Engineer Storm Water Drain-Dasarahalli Zone BBMP	

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M.A.R. 57 (Rule 116)

Measurement Book

Serial No..... No. A/10 64597

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	certificate						
	1) certified that the work done satisfactory						
	2) certified that the contractor has removed all debris from the work spot						
	3) certified that there is no departmental Issues						
	GR work 21/1/2019						

Assistant Executive Engineer
Storm Water Drain-Dasarahalli Zone
BBMP

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Royalty calculation						
I.No.	Description of work	Cont	Qty	Filly/ss cont	Qty	Sand cont	Qty
10	Filling boulders with Granite	cum	451.01	1.00	451.01	0.50	225.50
11	Filling Sand Granite	cum	7.94	1.00	7.94	0.50	3.97
12	CC M-10	cum	198.28	0.84	166.55	0.56	111.03
13	CC M25	cum	402.34	0.70	281.64	0.47	189.09
14	Dem mix M25	cum	280.13	0.70	196.09	0.47	131.66
15	CC M35	cum	21.18	0.68	14.40	0.45	9.53
16	CC M35	cum	18.96	0.68	12.89	0.45	8.53
17	pcc CCM35	cum	20.73	0.68	14.09	0.45	9.32
21	Filter media	cum	275.38	1.00	275.38	-	-
~~22~~	CC M30	cum	27.74	0.68	18.86	0.45	12.48
E-3				Total	1438.85 cum		701.11 cum
				RS:			

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10

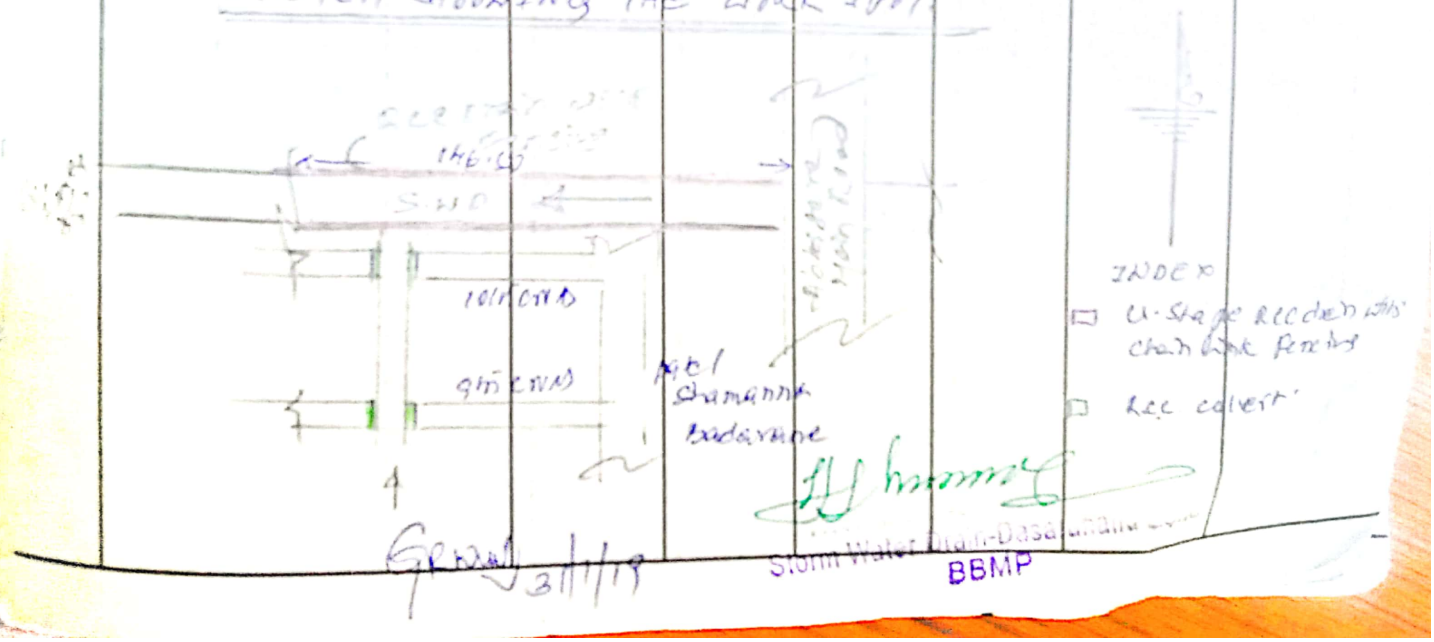
Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	SKETCH SHOWING THE WORK DONE.						



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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Present 13997760 =00						
	IT 124980 =00						
	CGST 124980 =00						
	SGST 124980 =00						
	WWC 124980 =00						
	CBF 12498 =00						
	LR 292958 =00						
	Deduction 805376 =00						
	Net 13192384 =00						
	Present 124980000 =00						
	IT 124980 =00						
	CGST 124980 =00						
	SGST 124980 =00						
	WWC 124980 =00						
	CBF 12498 =00						
	LR 292958 =00						
	Deduction 805376 =00						
	Net 11692624 =00						

Audited & Admitted for Rs. 124980000=00
Pay by cheque Rs. 11692624=00
By Adjustment Rs. 805376=00
Accts. Suptd. S.W.D, BBMP
Exe. Engineer S.W.D, BBMP

Audited & Admitted for Rs. 13997760=00
Pay by cheque Rs. 13192384=00
By Adjustment Rs. 805376=00
Accts. Suptd. S.W.D, BBMP
Exe. Engineer S.W.D, BBMP

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